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NOTICE OF ALLOWANCE AND FEE(S) DUE

35525

7590

09/29/2008

IBM CORP (YA)
C/O YEE & ASSOCIATES PC
P.O. BOX 802333
DALLAS, TX 75380

EXAMINER

WANG, LIANG CHE A

ART UNIT

PAPER NUMBER

2153

DATE MAILED: 09/29/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,587	03/25/2004	Rhonda L. Childress	AU920040118US1	7118

TITLE OF INVENTION: COMPOSITE RESOURCE MODELS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/29/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE** OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/809,587 03/25/2004

Rhonda L. Childress

AUS920040118US1

7118

TITLE OF INVENTION: COMPOSITE RESOURCE MODELS

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nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/29/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
WANG, LIANG CHE A	2153	709-224000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY AND STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____
 Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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IBM CORP (YA) C/O YEE & ASSOCIATES PC P.O. BOX 802333 DALLAS, TX 75380			WANG, LIANG CHE A	
			ART UNIT	PAPER NUMBER
			2153	
DATE MAILED: 09/29/2008				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 846 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 846 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.

10/809,587

Examiner

Liangche A. Wang

Applicant(s)

CHILDRESS ET AL.

Art Unit

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- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 6/20/08.
2. ☒ The allowed claim(s) is/are 1,3-7,10-12,14-18 and 20 (renumbered as 1-15).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 20051014
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Liangche A. Wang/
Primary Examiner, Art Unit 2153

EXAMINER'S AMENDMENT

1. Claims 1, 3-7, 10-12, 14-18, and 20 are allowed.
2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
3. Authorization for this examiner's amendment was given in a telephone interview with Wayne P. Bailey on 9/16/08.
4. The application has been amended as follow:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for monitoring a resource to determine whether the resource is in a proper operational state, wherein the resource is a monitored resource, the method comprising:
determining whether the monitored resource is part of a composite resource;
associating the monitored resource with the composite resource, wherein associating the monitored resource with the composite resource includes linking an entry in a resource data structure with an entry in a composite resource data structure; [[and]]
altering a reporting format for monitoring information to report monitoring information for the monitored resource and for the composite resource, wherein the monitoring information includes an operational status of the resource, and wherein the composite resource is a cluster, wherein the cluster is a plurality of server data processing systems aggregated together in a computing cooperative fashion such that at least some data resources of the plurality of server data processing systems are usable by another of the plurality of server data processing systems;
determining whether the cluster is part of a grid; and
associating the cluster with the grid, wherein the grid is a plurality of client and server data processing systems that operate to provide a plurality of computing resources for a common task to be performed by the grid.

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2. (Cancelled)
3. (Original) The method of claim 1, further comprising:
receiving the monitoring information at a resource manager; and
aggregating the monitoring information for the composite resource.
4. (Currently Amended) The method of claim 1, wherein associating the monitored resource with the composite resource includes creating an entry for the monitored resource in [[a]] the resource data structure.
5. (Original) The method of claim 4, wherein the resource data structure is a resource table.
6. (Currently Amended) The method of claim 4, wherein associating the monitored resource with the resource further includes linking the entry in the resource data structure with an entry in [[a]] the composite resource data structure.
7. (Previously Presented) The method of claim 6, wherein the composite resource data structure is a cluster data structure.
- 8-9. (Cancelled)
10. (Currently Amended) The method of claim [[9]] 1, wherein associating the cluster with the grid includes linking the entry in the cluster data structure with an entry in a grid data structure.
11. (Original) The method of claim 1, wherein determining whether the monitored resource is part of a composite resource includes identifying at least one of files loaded for a composite resource, hooks being leveraged in an operating system of the resource, and processes running for a composite resource.
12. (Currently Amended) An apparatus including a data processor for monitoring a resource to determine whether the resource is in a proper operational state, wherein the resource is a monitored resource, the apparatus comprising:

determination means for determining whether the monitored resource is part of a composite resource;

association means for associating the monitored resource with the composite resource, wherein the association means for associating the monitored resource with the composite resource includes linking means for linking an entry in a resource data structure with an entry in a composite resource data structure; [[and]]

alteration means for altering a reporting format for monitoring information to report monitoring information for the monitored resource and for the composite resource, wherein the monitoring information includes an operational status of the resource, and wherein the composite resource is a grid, wherein the grid is a plurality of client and server data processing systems that operate to provide a plurality of computing resources for a common task to be performed by the grid;

determining means for determining whether the cluster is part of a grid; and

second association means for associating the cluster with the grid, wherein the grid is a plurality of client and server data processing systems that operate to provide a plurality of computing resources for a common task to be performed by the grid.

13. (Cancelled)
14. (Original) The apparatus of claim 12, further comprising:
means for receiving the monitoring information at a resource manager; and
means for aggregating the monitoring information for the composite resource.
15. (Currently Amended) The apparatus of claim 12, wherein the association means includes means for creating an entry for the monitored resource in [[a]] the resource data structure.
16. (Original) The apparatus of claim 15, wherein the resource data structure is a resource table.
17. (Original) The apparatus of claim 12, wherein the determination means includes means for identifying at least one of files loaded for a composite resource, hooks being leveraged in an operating system of the resource, and processes running for a composite resource

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18. (Currently Amended) A computer program product, stored on ~~[[in]]~~ a computer ~~readable~~recordable medium, for monitoring a resource to determine whether the resource is in a proper operational state, wherein the resource is a monitored resource, the computer program product comprising:

instructions for determining whether the monitored resource is part of a composite resource;

instructions for associating the monitored resource with the composite resource, wherein the instructions for associating the monitored resource with the composite resource includes instructions for linking an entry in a resource data structure with an entry in a composite resource data structure: ~~[[and]]~~

instructions for altering a reporting format for monitoring information to report monitoring information for the monitored resource and for the composite resource, wherein the monitoring information includes an operational status of the resource, and wherein the composite resource is one of a cluster and a grid, wherein the cluster is a plurality of server data processing systems aggregated together in a computing cooperative fashion such that at least some data resources of the plurality of server data processing systems are usable by another of the plurality of server data processing systems, and wherein the grid is a plurality of client and server data processing systems that operate to provide a plurality of computing resources for a common task to be performed by the grid;

instructions for determining whether the cluster is part of a grid; and

instructions for associating the cluster with the grid, wherein the grid is a plurality of client and server data processing systems that operate to provide a plurality of computing resources for a common task to be performed by the grid.

19. (Cancelled)

20. (Original) The computer program product of claim 18, further comprising:
instructions for receiving the monitoring information at a resource manager; and
instructions for aggregating the monitoring information for the composite resource.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany

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the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Liang-che Alex Wang whose telephone number is (571)272-3992. The examiner can normally be reached on Monday thru Friday, 8:30 am to 5:00 pm.
7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenton B Burgess can be reached on (571)272-3949. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)..

Liang-che Alex Wang
September 17, 2008

/Liangche A. Wang/
Primary Examiner, Art Unit 2153

